



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

158474 I.I
4/21/94

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

DATE: April 21, 1994
TO: Kim Hubbert
FROM: Greg Dunn *GD*
SUBJECT: L1631210002 -- St. Clair County
Sauget/Site P - Sauget Area Sites
Superfund -- Technical Reports

On March 16, 1994, the Illinois Environmental Protection Agency's (IEPA) drill rig, support vehicle and crew mobilized to Sauget, Illinois for sampling of the Sauget Area II sites. The drill rig arrived at the first location, Site P (behind PT's Show Club), at 0815. The drill crew consisted of Paul Mason (driller), Bob Mathis (driller's helper), Mark Weber (driller's helper) and Greg Dunn (Geologist). Illinois EPA's Site Assessment Program's sampling team arrived at 0820. The sampling team consisted of Kim Hubbert (project manager), Mark Wagner (bottle preparation and chain-of-custodies), Pete Sorenson (sampler) and Scott Davis (sampler). Warren Miller of Union Electric arrived at 0830 to observe the sampling of Site P.

Began setting up drill rig at 0840. Drilling did not begin until Frank Blair of Laclede Pipe arrived on-site to identify the locations of any underground pipes. Mr. Blair arrived on-site at 0950.

Drilling began at 0953 (identified as B-1) in Site P. A five foot split spoon sampler was used to collect continuous samples throughout the borehole. Four feet of recovery was achieved during the first four feet of drilling. Lesser recoveries were achieved during the next ten feet of augering. Only a eleven inch recovery was attained for the four to nine foot range and a two foot seven inch recovery was accomplished for the nine to thirteen foot range. The material in the boring included slag, paper, coal, clay, brick pieces, plastic material, wood fragments, cloth, insulation, metal pieces, and silt (see Field Boring Log attached). The boring was completed to 13 feet. Highest HNU readings were identified in the 9 to 13 foot range. The levels ranged from 6.5 meter units above background in the top of the split spoon sampler to 102 meter units above background in the bottom of the split spoon sampler. A pungent odor was noticed from the sample. Level C was donned by the sampler and geologist while sampling and logging the sample. Drilling ended at 1025.

Bentonite was placed in the bottom of the borehole to seal the hole from any downward migration of contaminants. Bentonite chips were then mixed with the soil before the soil was placed back into the borehole. The drill rig was ready for the next sample location at 1100.

The second location was at the Sauget Wastewater Treatment Plant (Site O). The drill crew began setting up the rig at 1220. Stan Black, Michelle Nickey-Tebrugge and Paul Takacs of the Illinois EPA were on-site to talk with the media during the drilling. Drilling at Site O began at 1300. The drilling ended at 1305 after augering 2.5 feet below the surface. Water was found in the gear box and was creating a metal on metal grinding of the gears during augering. It was decided to abort drilling before additional damage to the drill rig was done. The drill rig loaded all the equipment onto the rig and support vehicle before departing the site at 1430.

Attachment

bcc: Division File
Collinsville Regional File



Illinois Environmental Protection Agency

Field Boring Log

Page 1 of 1

Site File No.: 1631210002 County St. Clair County Boring No. B-1 Monitor Well No. _____

Site File Name Savget Area II - Site P Surface Elev. _____ Completion Depth 13.0'

Fed. ID. No. ILD 984809293 Auger Depth 13.0' Rotary Depth _____

Quadrangle Cahokia Sec. 23 T. 2 N. R. 10 W. Date: Start 3-16-94 Finish 3-16-94

Boring Location Site P - Behind PT's Show Club

Drilling Equipment CME-75

SAMPLES

Personnel

G - Greg Dunn
D - Paul Mason
H - Bob Mathis
H - Mark Weber

Elev.	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Valves (blows)	1 INU readings	REMARKS
	0 - 1' 11"	1		S					No odor
	1' 11" - 2' 5" Brown to black clay, some pebbles, no odor	2	1	S	11/3			No readings above background	
	2' 5" - 2' 11" Gray slag material, some brick fragments, no odor	3							
	2' 11" - 3' 2" Paper? plastic material, no odor								
	3' 2" - 3' 5" Fill, coal fragments, stones, brick fragments, no odor								
	3' 5" - 3' 7" brown clay, silt, dry, no odor	4							
	3' 7" - 4' 0" paper, wood fragments								
	11" recovery only	5							odor detected
	Plastic, wood fragments, paper, cloth, insulation	6	2	S	11/3			18 meter units	Only 11" recovery
	bottom portion was yellow to brown slag with some purple material. Metal fragments and metal wire.	7							
		8							
		9							
	2' 7" Recovery	10		S				6.5	Pungent odor
	Slag material, gray, with brick fragments grading to fine grained silt material at the bottom. Paper and plastic material were found at the very bottom of the split spoon. Bottom material was moist.	11	3	S	2' 7"				Top of Split Spoon 6.5 meter units
		12							Bottom of Split Spoon 102 meter units
		13						102	
	Began drilling - 0953 Finished drilling - 1025 End of boring - 13'								